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BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/939,408

Source: O/PE

Date Processed by STIC: 9/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>09/939,408</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,408

DATE: 09/18/2001

TIME: 11:04:26

Input Set : A:\29479-500nsca sequence listing.txt
Output Set: N:\CRF3\09182001\I939408.raw

D:\as\I939408\I939408

Correspondence Address

3 <110> APPLICANT: Yoshida, Roberta
4 Kootstra, Anna
7 <120> TITLE OF INVENTION: Phenylalanine Ammonia Lyase Polypeptide and
8 Polynucleotide Sequences and Methods of Obtaining and
9 Using Same
11 <130> FILE REFERENCE: 29479/500NSCA
14 <140> CURRENT APPLICATION NUMBER: US/09/939,408
14 <141> CURRENT FILING DATE: 2001-08-24
14 <150> PRIOR APPLICATION NUMBER: US 09/624,693
17 <151> PRIOR FILING DATE: 2000-07-24
18 <150> PRIOR APPLICATION NUMBER: PCT/US01/23270
21 <151> PRIOR FILING DATE: 2001-07-24
E--> 24 <160> NUMBER OF SEQ ID NOS: 30 OK
26 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

see p.2 and p.3

Fwd

<210> 20
 <211> 2475
 <212> DNA
 <213> Artificial Sequence

<220>

<221> misc_difference

<222> (13, 34, 46, 49, 51, 57, 59, 68, 69, 73, 75 - 77, 79, 82, 84, 102, 106, 108, 115, 119, 144, 145, 164, 168, 190, 191, 195, 199 - 201, 233, 251, 264, 266, 276, 284, 312, 315, 330, 331, 333, 340, 348, 357, 405, 423, 450, 456, 463, 468, 475, 483, 555, 570, 675, 681, 715, 716, 723, 729, 730, 732, 743, 744, 758, 783, 921, 963, 1042, 1043, 1176, 1197, 1241, 1270, 1281, 1308, 1380, 1383, 1407, 1446, 1449, 1452, 1470, 1488, 1509, 1542, 1554, 1563, 1617, 1675, 1677, 1678, 1681, 1683, 1684, 1690, 1693, 1708, 1710, 1723 - 1735, 1745, 1762, 1768, 1776, 1855 - 1862, 1872 - 1875, 1880, 1881, 1895, 1950, 1952, 1962, 1971, 1976, 2001, 2145, 2146, 2151, 2183, 2187 - 2189, 2191, 2193 - 2195, 2197, 2199, 2206, 2208 - 2212, 2215 - 2217, 2219, 2221 - 2223, 2226 - 2233, 2236, 2239, 2241 - 2243, 2247, 2248, 2251, 2254, 2256 - 2260, 2265, 2266, 2268, 2269, 2271, 2272, 2274 - 2280, 2282 - 2285, 2287, 2289, 2290, 2293, 2294, 2298, 2300 - 2303, 2305, 2307, 2308, 2312, 2313, 2315 - 2319, 2322 - 2324, 2326, 2327, 2329 - 2335, 2337 - 2339, 2341, 2344 - 2346, 2349 - 2351, 2354, 2356, 2358 - 2363, 2365, 2366, 2368, 2371, 2373, 2374, 2377, 2379, 2380, 2382, 2384, 2385, 2387, 2390, 2392, 2393, 2395 - 2403, 2405, 2409 - 2475)

<223> n = A or C or G or T; "n" indicates no consensus at that position

<223> Description of Artificial Sequence: Consensus

Sequence of SEQ ID NOS: 12, 16, and 18

(See, also, item 2 on
 Error Summary
 sheet

Please ensure all lines not
 exceed 72 characters.

This response
needs to be
 shortened; the size
 is causing the
 <160> error on p 1.

See 1.823 d)
 Sequence Ruler

Please list just
 the number (location)
 of the first and the
 last bases

e.g. (13). . (2475)

do same in sequence 21, too

00/934,408 3

<400> 28

atg gcm cct tcc ttg gac tcg ctc gcc acc acg ctc gcc aac ggc ttt
Met Ala Pro Ser Leu Asp Ser Leu Ala Thr Thr Leu Ala Asn Gly Phe
1 5 10 15
acc aac ggc tcg cac gcc gct ccg acc aag tcg gct gcg ggc ccc act → 96
Thr Asn Gly Ser His Ala Ala Pro Thr Lys Ser Ala Ala Gly Pro Thr
20 25 30

48

met over

codons must
be directly
above respective
amino acids

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/939,408

DATE: 09/18/2001
TIME: 11:04:27

Input Set : A:\29479-500nsca sequence listing.txt
Output Set: N:\CRF3\09182001\I939408.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:192 M:283 W: Missing Blank Line separator, <220> field identifier
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:408 M:283 W: Missing Blank Line separator, <400> field identifier
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:24 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (30) Counted (19)